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PATENT Attorney Reference Number 4239-73127-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of: Emmert-Buck et al.

Application No. 10/535,521

Filed: May 18, 2005 Confirmation No. 7250

For: METHOD AND APPARATUS FOR

> PERFORMING MULTIPLE SIMULTANEOUS MANIPULATIONS OF BIOMOLECULES IN A

TWO-DIMENSIONAL ARRAY

Examiner: Heather Calamita

Art Unit: 1637

Attorney Reference No. 4239-73127-03

COMMISSIONER FOR PATENTS P.O. BOX 1450 **ALEXANDRIA, VA 22313-1450**

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Attorney or Agent

for Applicant(s)

Tanya M. Harding, Ph. D

Date Mailed _ March 31, 2006

TRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

 \boxtimes Information Disclosure Statement

Form 1449 (4 pages)

Copies of non-U.S. patent references cited thereon (22 documents enclosed)

The Director is hereby authorized to charge any additional fees that may be required, or credit over-payment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.

Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

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Docketing cc:

Tanya M. Harding, Ph.D. Registration No. 42,630

KLAROUIST SPARKMAN, LLP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of: Emmert-Buck et al.

Application No. 10/535,521

Filed: May 18, 2005 Confirmation No. 7250

For: METHOD AND APPARATUS FOR

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SIMULTANEOUS MANIPULATIONS OF

BIOMOLECULES IN A TWO-DIMENSIONAL ARRAY

Examiner: Heather Calamita

Art Unit: 1637

Attorney Reference No. 4239-73127-03

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Attorney or Agent for Applicant(s)

Tanya M. Harding, Ph.D.

Date Mailed March 31, 2006

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97(b)(3)

COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

Listed on the accompanying form PTO-1449 are several English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request. All other listed documents are enclosed herewith.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this IDS, deposit account authorization is provided on the accompanying transmittal letter.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

By

Respectfully submitted,

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cc: Docketing

Tanya M. Harding, Ph.D. Registration No. 42,630

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Attorney Docket Number	4239-73127-03
Application Number	10/535,521
Filing Date	May 18, 2005
First Named Inventor	Emmert-Buck
Art Unit	1637
Examiner Name	Heather Calamita

U.S. PATENT DOCUMENTS

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		2002/0012920	Jan. 31, 2002	Gardner et al.
		3,620,947	Nov. 16, 1971	Allen et al.
		4,176,069	Nov. 1979	Metz et al.
•		4,337,131	June 29, 1982	Vesterberg
-		4,613,567	Sept. 23, 1986	Yasoshima et al.
		4,716,101	Dec. 29, 1987	Thompson et al.
		4,795,562	Jan. 3, 1989	Walsh
		4,840,714	Jun. 20, 1989	Littlehales
		4,874,691	Oct. 1989	Chandler
		5,047,135	Sept. 10, 1991	Nieman
		5,057,438	Oct. 15, 1991	Imai et al.
		5,078,853	Jan. 07, 1992	Manning et al.
		5,155,049	Oct. 13,1992	Kauvar et al.
		5,173,159	Dec. 22, 1992	Dutertre
		5,238,651	Aug. 24, 1993	Chuba
		5,332,484	July 26, 1994	Hilt
		5,387,325	Feb. 07, 1995	Opplt

EXAMINER	DATE
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^{*} Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		5,427,664	June 27, 1995	Stoev et al.
		5,438,128	Aug. 1995	Nieuwkerk et al.
:		5,486,452	Jan. 23, 1996	Gordon et al.
•		5,650,055	July 22, 1997	Margolis
•		5,679,310	Oct. 21, 1997	Manns
		5,716,508	Feb. 10, 1998	Starr
		5,741,639	April 21, 1998	Ensing et al.
		5,843,657	Dec. 1, 1998	Liotta et al.
		5,993,627	Nov. 30, 1999	Anderson et al.
		6,013,165	Jan. 11, 2000	Wiktorowicz et al.
		6,064,754	May 16, 2000	Parekh et al.
		6,087,134	July 11, 2000	Saunders
		6,135,942	Oct. 24, 2000	Leptin
		6,232,067	May 15, 2001	Hunkapiller et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		EPC	EP 0525723	Feb. 3, 1993	

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ORMANION DISCLOSURE STATEMENT

BY APPLICANT

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Art Unit	1637
Examiner Name	Heather Calamita

FOREIGN PATENT DOCUMENTS

FOREIGN TATENT DOCUMENTS					
Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		EPC	EP 0139373	May 2, 1985	
:		PCT	WO 00/45168	Aug. 3, 2000	Bienvenut et al.
		PCT	WO 98/20353	May 14, 1998	McGrath et al.
		PCT	WO 98/41863	Sept. 24, 1998	Clatch
		PCT	WO 99/67647	Dec. 29, 1999	Chen
Examiner's Initials*	Cite No. (optional)		ОТН	IER DOCUMENTS	S
			m, "Modified diffu," Electrophoresis		id and efficient protein transfer
	Cleeve et al., "Isoelectric focusing of human tissue alkaline phosphatase isoenzymes i agarose gel," Clinica Chimica Acia, 137:333-340 (1984)			ne phosphatase isoenzymes in	
					nents of a gel retardation assay Sci. USA 90:2574-2578 (April
			yered Expression S • Res. 60:1526-1530		ecular Profiling of Tumor
		Englert et al., "Mo Mol. Therap. 1(6)		f human cancer: New	v opportunities," Curr. Opin.
		I .	Dernick, "Effective Electrophoresis 16	_	n polyacrylamide gels anchored
		electrophoresis (S	DS-PAGE) and iso	electric focusing (Pa	athin-layer polyacrylamide AGIF) of cryostat sections and d XXXVI, S. 377-394 (1998)

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RMATIC	ON DISCLOSURE STATEMENT
(%)	BY APPLICANT

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First Named Inventor	Emmert-Buck
Art Unit	1637
Examiner Name	Heather Calamita

Example *	cite No. (optional)	OTHER DOCUMENTS	
		Legocki and Verma, "Multiple Immunoreplica Techique: Screening for Specific Proteins with a Series of Different Antibodies Using One Polyacrylamide Gel," <i>Anal. Biochem.</i> 111:385-392 (1981)	
		Manabe et al., "An Electroblotting Apparatus for Multiple Replica Technique and Identification of Human Serum Proteins on Micro Two-Dimensional Gels," Anal. Biochem. 143:39-45 (1984)	
•		Neumann and Müllner, "Two replica blotting methods for fast immunological analysis of common proteins in two-dimensional electrophoresis," <i>Electrophoresis</i> 19:752-757 (1998)	
•		Olsen and Wiker, "Diffusion blotting for rapid production of multiple identical imprints from sodium dodecyl sulfate polyacrylamide gel electrophoresis on a solid support," <i>J. Immunol. Methods</i> 220:77-84 (1998)	
		Pappalardo et al., "Microdissection, microchip arrays, and molecular analysis of tumor cells (Primary and Metastases)," Seminars in Radiation Oncology 8(3):217-223 (1998)	
		Sanchez et al., "Simultaneous analysis of cyclin and oncogene expression using multiple monoclonal antibody immunoblots," <i>Electrophoresis</i> 18:638-641 (1997)	
		Schumacher and Trudrung, "Direct Tissue Isoelectric Focusing on Mini Ultrathin Polyacrylamide Gels followed by Subsequent Western Blotting, Enzyme Detection, and Lectin Labeling as a Tool for Enzyme Characterization in Histochemistry," <i>Analytical Biochemistry</i> , 194:256-258 (1991)	
		Schumacher <i>et al.</i> , "Direct tissue isoelectric focusing on ultrathin polyacrylamide gels. Applications in enzyme, lectin and immunohistochemistry," <i>Histochemical Journal</i> , 22:433-438 (1990)	
		van der Sluis et al., "Immunochemical detection of peptides and proteins on press-blots after direct tissue gel isoelectric focusing," Electrophoresis, 9:654-661 (1988)	

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